

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Previously Presented) Device for determining a possible presence of contamination of a container with a decorative exterior, comprising:

an irradiating means for irradiating the container with at least a first wavelength,

a first recording means for recording a radiation sample of radiation during interaction of the radiation with at least a part of the container,

an orientation determining means for determining a rotational orientation of the container relative to the first recording means, and

a comparing means for comparing the sample to a reference matching the rotational orientation of the container relative to the first recording means during the recording to determine the possible presence of contamination,

a second recording means for determining, by way of a second recording, the orientation of the container relative to the first recording means on the basis of the mutual positions and orientations of the first recording means, the second recording means and the container at the time of the first and second recording.

2. (Previously Presented) Device as claimed in claim 1, further comprising:

a second irradiating means for emitting radiation of at least a second wavelength.

3-4. (Cancelled)

5. (Previously Presented) Device as claimed in claim 2, further comprising:
a filter means for making recordings in optically independent manner with the first recording means on the basis of radiation of the first or of the second wavelength.

6. (Previously Presented) Device as claimed in claim 1, further comprising:
a polarizing means for polarizing radiation of the irradiating means.

7. (Previously Presented) Device as claimed in claim 1, wherein the first radiation sources are positioned behind the container relative to the container during making of the recording wherein the radiation irradiates the container.

8. (Previously Presented) Device as claimed in claim 1, further comprising:
a selecting means for selecting a part of the recording of a part of the container as an assessment part, on the basis of which part the assessment is carried out.

9. (Previously Presented) Device as claimed in claim 1, wherein the first recording means includes at least one camera.

10. (Previously Presented) Device as claimed in claim 5, wherein the filter means includes an optical filter.

11. (Previously Presented) Device as claimed in claim 5, wherein the filter means includes an electronic filter.

12. (Previously Presented) Device as claimed in claim 1, further comprising:
a composing means for composing, on the basis of at least one of the radiation sample and parameters, a robust reference image or a reference image with permissible deviation values, on the basis of which image acceptable deviations in the decorative exterior within a series of containers can be taken into account during selection of containers.

13. (Previously Presented) Device as claimed in claim 1, further comprising:
a selecting means for selecting a part of the recording of a part of the container as an assessment part, and
a processing means for producing, on the basis of the radiation sample or the assessment part, a flat representation thereof.

14. (Previously Presented) Device as claimed in claim 13, further comprising:
a composing means for composing, on the basis of the radiation sample, a robust reference image with permissible deviation values, wherein the comparing means are embodied in order to compare the flat representation to the robust reference image.

15. (Previously Presented) Device as claimed in claim 14, further comprising:
a second comparing means for comparing the second recording to a second reference image or the robust reference image for the purpose of detecting deviations on the decorative exterior.

16. (Previously Presented) Device as claimed in claim 1, wherein the orientation determining means determine the orientation on the basis of the recording of the second recording means.

17. (Previously Presented) Device according to claim 1, wherein the irradiating means irradiate the container substantially from the top or bottom.

18. (Cancelled).

19. (Currently Amended) Method for determining a possible presence of contamination of a container with a decorative exterior, comprising:
irradiating the container with radiation with at least a first wavelength,
determining a rotational orientation of the container relative to a first recording device,
recording, via the first recording device, a radiation sample of the radiation after the radiation passes through at least a part of the container,

determining the possible presence of contamination by comparing the sample to a reference matching the rotational orientation of the container relative to the first recording device,

approving or rejecting the container based upon the determination, and

determining the rotational orientation of the container, ~~making use of radiation including at least a second wavelength, and making a second recording via a second recording device with a sensitivity to the second wavelength for determining the orientation of the container~~ relative to the first recording device on the basis of the mutual positions and orientations of the ~~first recorded recording sample device~~, the second recording device and the container at the time of the recording of the sample and the second recording.

20. (Cancelled)

21. (Currently Amended) Method as claimed in claim 19, wherein the containers are transported via a conveyor past an irradiating device and the first recording device.

22. (Previously Presented) Method as claimed in claim 19, wherein the sample comprises an image recording and the reference comprises a reference image.

23. (Previously Presented) Method as claimed in claim 19, wherein two recording devices make the recording of the radiation sample and the second recording, respectively, at an angle relative to the container.

24. (Previously Presented) Device for determining a possible presence of contamination of a container with a decorative exterior, comprising:

an irradiating means for irradiating the container with at least a first wavelength,

a first recording means for recording a radiation sample of radiation during interaction of the radiation with at least a part of the container,

an orientation determining means for determining a rotational orientation of the container relative to the first recording means, and

a comparing means for comparing the sample to a reference matching the rotational orientation of the container relative to the first recording means during the recording to determine the possible presence of contamination,

wherein the orientation determining means includes a second recording means for making at least a second recording for the purpose of determining the orientation of the container relative to the first recording means on the basis of the mutual position and orientation of the second recording means and the container at the time of the second recording.

25. (Previously Presented) Device for determining a possible presence of contamination of a container with a decorative exterior, comprising:

an irradiating means for irradiating the container with at least a first wavelength,

a first recording means for recording a radiation sample of radiation during interaction of the radiation with at least a part of the container,

an orientation determining means for determining a rotational orientation of the container relative to the first recording means,

a comparing means for comparing the sample to a reference matching the rotational orientation of the container relative to the first recording means during the recording to determine the possible presence of contamination

a second recording means for recording a second recording, and

a second comparing means for comparing the second recording to a second reference image or a robust reference image for the purpose of detecting deviations on the decorative exterior.

26. (Currently Amended) Method for determining a possible presence of contamination of a container with a decorative exterior, comprising:

irradiating the container with radiation with at least a first wavelength,
determining a rotational orientation of the container relative to a recording device,

recording, via the recording device, a radiation sample of the radiation after the radiation passes through at least a part of the container,

determining the possible presence of contamination by comparing the sample to a reference matching the rotational orientation of the container relative to the recording device,

approving or rejecting the container based upon the determination, and

recording, by a second recording means, a second recording for determining the orientation of the container relative to the ~~radiation sample~~ recording device on the

basis of the mutual position and orientation of the second recording means and the container at the time of the second recording.

27. (Previously Presented) Method for determining a possible presence of contamination of a container with a decorative exterior, comprising:

irradiating the container with radiation with at least a first wavelength,
determining a rotational orientation of the container relative to a recording device,

recording, via the recording device, a radiation sample of the radiation after the radiation passes through at least a part of the container,

determining the possible presence of contamination by comparing the sample to a reference matching the rotational orientation of the container relative to the recording device,

approving or rejecting the container based upon the determination, and
recording, by a second recording means, a second recording, and
comparing, by a second comparing means, the second recording to a second reference image or a robust image for the purpose of detecting deviations on the decorative exterior.

<End of Claims Listing>